



PATENT  
Docket No. 402162000200

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Hermann Bujard et al.

Serial No.: 09/269,874

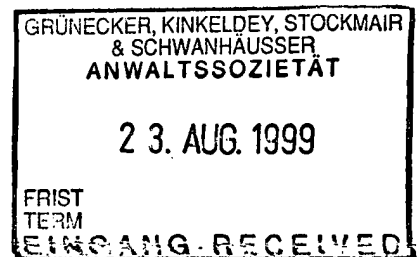
International Application No.: PCT/EP97/05441

International Filing Date: October 2, 1997

For: RECOMBINANT PROCESS FOR  
PREPARING A COMPLETE MALARIA  
ANTIGEN, gp190/MSP1

Examiner: To Be Assigned

Group Art Unit: To Be Assigned



**PROSECUTION BY ASSIGNEE AND POWER OF ATTORNEY  
UNDER 37 C.F.R. § 3.71**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Hermann Bujard, the assignee of the entire right, title and interest in this patent application, under 37 C.F.R. § 3.71 hereby appoints:

Mani Adeli (Reg No. 39,585)  
Erwin J. Basinski (Reg No. 34,773)  
Sean Brennan (Reg No. 39,917)  
Nicholas Buffinger (Reg No. 39,124)  
Mark R. Carter (Reg No. 39,131)  
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Richard D. Jordan (Reg No. 33,519)  
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Alan W. Cannon (Reg No. 34,977)  
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Raj S. Davé (Reg No. 42,465)  
Carolyn A. Favorito (Reg No. 39,183)  
Douglas Hodder (Reg No. 41,840) Charles  
Madeline I. Johnston (Reg No. 36,174)  
Ararat Kapouytian (Reg No. 40,044)  
Kawai Lau (Reg No. P-44,461)  
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Kevin R. Spivak (Reg No. 43,148)  
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all of Morrison & Foerster LLP, 755 Page Mill Road, Palo Alto, California 94304-1018, telephone (650) 813-5600, to prosecute this application and transact all matters in the United States Patent and Trademark Office connected therewith, said appointment to be to the exclusion of the inventors and their attorneys in accordance with the provisions of 37 C.F.R. § 3.71 provided that if any one of said attorneys or agents ceases being affiliated with the law firm of Morrison & Foerster as partner, employee or of counsel, such attorney's or agent's appointment as attorney or agent and all powers derived therefrom shall terminate on the date such attorney or agent ceases being so affiliated.

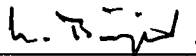
Please direct all written communications relative to this application to:

Gladys H. Monroy  
Morrison & Foerster LLP  
755 Page Mill Road  
Palo Alto, California 94304-1018

Please direct all telephone communications to Gladys H. Monroy at (650) 813-5711.

Hermann Bujard  
an individual

Dated: August 19, 1999



Name: Hermann Bujard

Title: Professor

Address: Zentrum für Molekulare Biologie  
Universität Heidelberg (ZMBH)  
Im Neuenheimer Feld 282  
D-69120 Heidelberg, Germany



PTO/SB/96 (10-92)

## CERTIFICATE UNDER 37 C.F.R. § 3.73(b)

Docket No. 402162000200

In the application of: Herman Bujard et al.  
Serial No.: 09/269,874  
International Application No.: PCT/EP97/05441  
International Filing Date: October 2, 1997  
For: RECOMBINANT PROCESS FOR PREPARING A COMPLETE MALARIA ANTIGEN  
gp190/MSP1

Hermann Bujard, an individual, certifies that he is the assignee of the entire right, title and interest in the patent application identified above by virtue of either:

A. ☒ An assignment from the inventor(s) of the patent application identified above, for which a copy thereof is attached.

OR

B. ☐ A chain of title from the inventor(s) of the patent application identified above, to the current assignee as shown below:

1. From : \*  
To: \*

The document was recorded in the Patent and Trademark Office at Reel \*, Frame \*, or for which a copy thereof is attached.

2. From : \*  
To: \*

The document was recorded in the Patent and Trademark Office at Reel \*, Frame \*, or for which a copy thereof is attached.

3. From : \*  
To: \*

The document was recorded in the Patent and Trademark Office at Reel \*, Frame \*, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ Copies of assignments or other documents in the chain of title are attached.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Dated: Aug 19, 1999

H. Bujard  
Name: Hermann Bujard  
Title: Professor

COPY

Attorney Docket No.: 402162000200

## ASSIGNMENT

THIS ASSIGNMENT, by Ralf TOLLE and Weiqing PAN (hereinafter referred to as "said Assignors"), residing at Ludwigsburg, Germany and Heidelberg, Germany, respectively, witnesseth:

WHEREAS, said Assignors, together with Hermann BUJARD (hereinafter referred to as "said Assignee"), have co-invented certain new and useful improvements in **RECOMBINANT PROCESS FOR PREPARING A COMPLETE MALARIA ANTIGEN, gp190 MSP1** (hereinafter referred to as "said inventions"), set forth in a German patent application bearing serial number 196 40 817.2 and filed on 02 October 1996, in an International Patent Application bearing serial number PCT/EP97/05441 and filed on 02 October 1997, and in a corresponding 35 U.S.C. § 371 application for Letters Patent of the United States bearing serial number USSN 09/269,874 and filed on 01 April 1999 (hereinafter collectively referred to as "said filed patent applications"); and:

WHEREAS, said Assignee, residing at Remlierstrasse 9, D-69120 Heidelberg, Germany, is desirous of acquiring said Assignors' entire right, title and interest in and to said inventions, and said filed patent applications, and in and to any and all Letters Patent or Patents, United States of America or foreign, to be obtained therefor and thereon:

NOW, THEREFORE, for good and sufficient considerations, the receipt of which is hereby acknowledged, and to the extent that they have not already done so, said Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto said Assignee, his successors, legal representatives and assigns, their entire right, title and interest in and to the above-mentioned inventions, said filed patent applications, any and all Letters Patent or Patents in the United States of America or any foreign country which may be granted therefor and thereon, any and all applications for Letters Patent or Patent in the United States of America or any foreign country for said inventions, any and all divisional, continuation, or continuation-in-part applications for Letters Patent or Patent in the United States of America or any foreign country for said inventions, any and all reissues or extensions of any Letters Patent or Patent in the United States of America or any foreign country for said inventions, any and all applications for Letters Patent or Patent in the United States of America or any foreign country claiming priority benefit of said filed patent applications, and all rights under the International Convention for the Protection of Industrial Property for said inventions, the same to be held and enjoyed by said Assignee, for his own use and the use of his successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by said Assignors, had this sale and assignment not been made.

AND for the same consideration, said Assignors hereby covenant and agree to and with said Assignee, his successors, legal representatives and assigns, that said Assignors will, whenever counsel of said Assignee, or the counsel of his successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, said filed patent applications, or Letters Patent or Patents, United States of America or foreign, for said inventions, including interference proceedings, is lawful and desirable, or that any application for Letters Patent or Patent, United States of America or foreign, for said inventions, any divisional, continuation, or continuation-in-part application for Letters Patent or Patent, United States of America or foreign, for said inventions, any reissue or extension of any Letters Patent or Patent, United States of America or foreign, for said inventions, or any application for Letters Patent or Patent in the United States of America or any foreign country claiming priority benefit of said filed patent applications, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent or Patents, United States of America or foreign, for said inventions, without charge to said Assignee, his successors, legal representatives and assigns, but at the cost and expense of said Assignee, his successors, legal representatives and assigns.

20.5.99

Date

Rf Tolle

Ralf TOLLE

05.06.99

Date

W. P. Pan

Weiqing PAN